

```
=> s us6710043/pn
L1          1 US6710043/PN
```

```
=> analyze l1
ENTER ANSWER NUMBER OR RANGE (1-):1
ENTER DISPLAY CODE (TI) OR ?:rn
L2          ANALYZE L1 1 RN :          57 TERMS
```

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	12.84	13.05

FILE 'REGISTRY' ENTERED AT 15:38:27 ON 10 MAY 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

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STRUCTURE FILE UPDATES:      9 MAY 2005  HIGHEST RN 850130-09-5
DICTIONARY FILE UPDATES:    9 MAY 2005  HIGHEST RN 850130-09-5
```

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```

*****
*
* The CA roles and document type information have been removed from
* the IDE default display format and the ED field has been added,
* effective March 20, 2005.  A new display format, IDERL, is now
* available and contains the CA role and document type information.
*
*****

```

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 12  
L3 57 L2

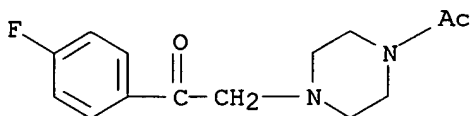
=> s 13  
L4 57 L2

```
=> s l4 and piperazin?
      576449 PIPERAZIN?
L5      11 L4 AND PIPERAZIN?
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=> d 1-11

L5 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 283167-27-1 REGISTRY

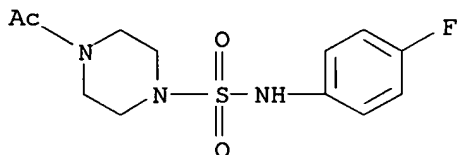
ED Entered STN: 04 Aug 2000  
CN **Piperazine, 1-acetyl-4-[2-(4-fluorophenyl)-2-oxoethyl]-, monohydrochloride (9CI)** (CA INDEX NAME)  
MF C14 H17 F N2 O2 . Cl H  
SR CA  
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL  
CRN (749837-14-7)



● HCl

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

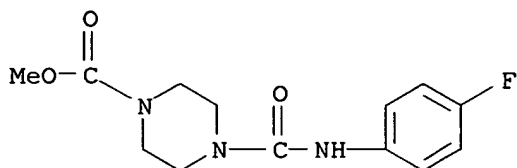
L5 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **283167-23-7** REGISTRY  
ED Entered STN: 04 Aug 2000  
CN **1-Piperazinesulfonamide, 4-acetyl-N-(4-fluorophenyl)- (9CI)** (CA INDEX NAME)  
FS 3D CONCORD  
MF C12 H16 F N3 O3 S  
SR CA  
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

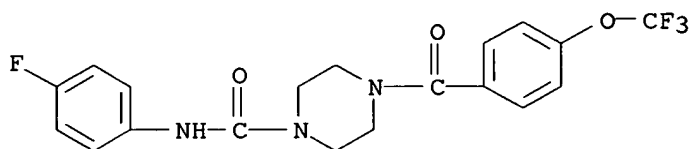
L5 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **283167-21-5** REGISTRY  
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CN **1-Piperazinecarboxylic acid, 4-[[4-(4-fluorophenyl)amino]carbonyl]-, methyl ester (9CI)** (CA INDEX NAME)  
FS 3D CONCORD  
MF C13 H16 F N3 O3  
SR CA  
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

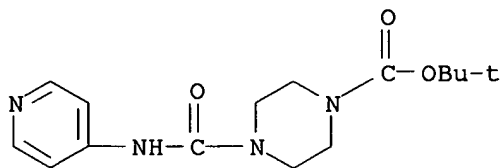
L5 ANSWER 4 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **283167-20-4** REGISTRY  
ED Entered STN: 04 Aug 2000  
CN **1-Piperazinecarboxamide, N-(4-fluorophenyl)-4-[4-(trifluoromethoxy)benzoyl]- (9CI)** (CA INDEX NAME)  
FS 3D CONCORD  
MF C19 H17 F4 N3 O3  
SR CA  
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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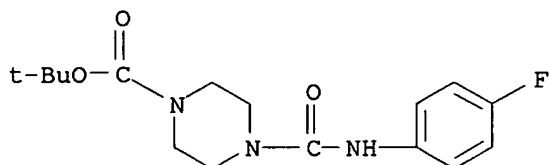
L5 ANSWER 5 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **283167-04-4** REGISTRY  
ED Entered STN: 04 Aug 2000  
CN **1-Piperazinecarboxylic acid, 4-[(4-pyridinylamino)carbonyl]-, 1,1-dimethylethyl ester (9CI)** (CA INDEX NAME)  
FS 3D CONCORD  
MF C15 H22 N4 O3  
SR CA  
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

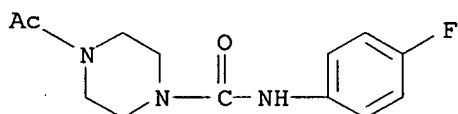
L5 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 283167-03-3 REGISTRY  
 ED Entered STN: 04 Aug 2000  
 CN 1-Piperazinecarboxylic acid, 4-[[ (4-fluorophenyl)amino]carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C16 H22 F N3 O3  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

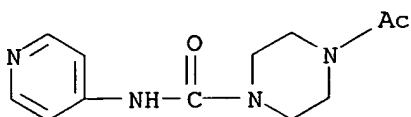
L5 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 283167-02-2 REGISTRY  
 ED Entered STN: 04 Aug 2000  
 CN 1-Piperazinecarboxamide, 4-acetyl-N-(4-fluorophenyl)- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C13 H16 F N3 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

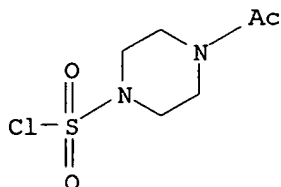
L5 ANSWER 8 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 283167-01-1 REGISTRY  
 ED Entered STN: 04 Aug 2000  
 CN 1-Piperazinecarboxamide, 4-acetyl-N-4-pyridinyl- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C12 H16 N4 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 9 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 274686-11-2 REGISTRY  
ED Entered STN: 05 Jul 2000  
CN 1-Piperazinesulfonyl chloride, 4-acetyl- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 1-Acetyl-4-piperazinesulfonyl chloride  
FS 3D CONCORD  
MF C6 H11 Cl N2 O3 S  
SR CA  
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



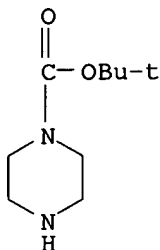
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 10 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 57260-71-6 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 1-Piperazinecarboxylic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 1,1-Dimethylethyl 1-piperazinecarboxylate  
CN 1,1-Dimethylethyl piperazin-1-carboxylate  
CN 1-(tert-Butoxycarbonyl)piperazine  
CN 1-(tert-Butyloxycarbonyl)piperazine  
CN 1-Piperazinecarboxylic acid tert-butyl ester  
CN 1-[(1,1-Dimethylethoxy)carbonyl]piperazine  
CN 4-(tert-Butyloxycarbonyl)piperazine  
CN N-(tert-Butoxycarbonyl)piperazine  
CN N-BOC-Piperazine  
CN N-tert-Butyloxycarbonylpiperazine  
CN tert-Butyl 1-piperazinecarboxylate  
FS 3D CONCORD  
DR 131339-76-9  
MF C9 H18 N2 O2  
CI COM  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, SYNTHLINE, TOXCENTER, USPAT2,

USPATFULL

(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1190 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1192 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 11 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN

RN 13889-98-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN Piperazine, 1-acetyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-(Piperazin-1-yl)ethanone

CN 1-(Piperazinyl)ethanone

CN 1-Acetylpiperazine

CN 4-Acetylpiperazine

CN N-Acetylpiperazin

CN N-Acetylpiperazine

CN NSC 39649

FS 3D CONCORD

MF C6 H12 N2 O

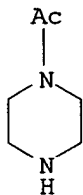
CI COM

LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,  
CHEMINFORMRX, CHEMLIST, CSChem, IFICDB, IFIPAT, IFIUDb, SYNTHLINE,  
TOXCENTER, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

399 REFERENCES IN FILE CA (1907 TO DATE)

401 REFERENCES IN FILE CAPLUS (1907 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s 13889-98-0 or 57260-71-6 or 274686-11-2  
1 13889-98-0  
(13889-98-0/RN)  
1 57260-71-6  
(57260-71-6/RN)  
1 274686-11-2  
(274686-11-2/RN)  
L6 3 13889-98-0 OR 57260-71-6 OR 274686-11-2

=> d his

(FILE 'HOME' ENTERED AT 15:38:02 ON 10 MAY 2005)

FILE 'CAPLUS' ENTERED AT 15:38:08 ON 10 MAY 2005

L1 1 S US6710043/PN  
L2 ANALYZE L1 1 RN : 57 TERMS

FILE 'REGISTRY' ENTERED AT 15:38:27 ON 10 MAY 2005

L3 57 S L2  
L4 57 S L3  
L5 11 S L4 AND PIPERAZIN?  
L6 3 S 13889-98-0 OR 57260-71-6 OR 274686-11-2

=> s 15 not 16

L7 8 L5 NOT L6

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	26.56	39.61

FILE 'CAPLUS' ENTERED AT 15:40:53 ON 10 MAY 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 10 May 2005 VOL 142 ISS 20

FILE LAST UPDATED: 9 May 2005 (20050509/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 17

L8 2 L7

=> d bib abs hitstr 1-2

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:861479 CAPLUS

DN 134:29431

TI Agent for expression of long-term potentiation of synaptic transmission comprising compound having brain somatostatin activation property

IN Matsuoka, Nobuya; Satoh, Masamichi

PA Fujisawa Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000072834	A2	20001207	WO 2000-JP3334	20000524
	WO 2000072834	A3	20020711		
	W: BR, CA, CN, JP, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 6344358	B1	20020205	US 1999-321745	19990528
	EP 1235575	A2	20020904	EP 2000-929854	20000524
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	JP 2003522120	T2	20030722	JP 2000-620946	20000524
	US 2002090732	A1	20020711	US 2002-41592	20020110
	US 6613572	B2	20030902		
PRAI	US 1999-321745	A	19990528		
	WO 2000-JP3334	W	20000524		

OS MARPAT 134:29431

AB The present invention relates to an agent for the expression of long-term potentiation of synaptic transmission, which contains a compound having a brain somatostatin activation property as an active ingredient and to a screening method of an agent for the expression of long-term potentiation of synaptic transmission, which uses a somatostatin releasing property as an index. E.g., to a solution of O-Ph N-(4-pyridyl)carbamate in 1,2-dichloroethane was added a suspension of 1-acetylpiperazine to give 1-acetyl-4-(4-pyridylaminocarbonyl)piperazine.

IT 283167-01-1P 283167-02-2P 283167-03-3P

283167-04-4P 283167-20-4P 283167-21-5P

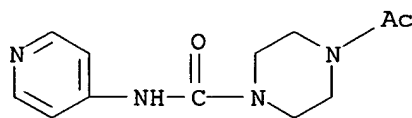
283167-23-7P 283167-27-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of agents for expression of long-term potentiation of synaptic transmission)

RN 283167-01-1 CAPLUS

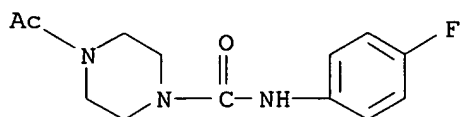
CN 1-Piperazinecarboxamide, 4-acetyl-N-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 283167-02-2 CAPLUS

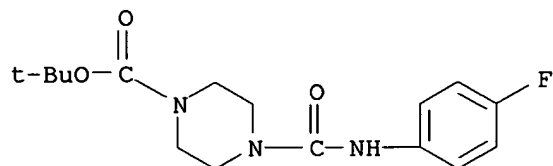
CN 1-Piperazinecarboxamide, 4-acetyl-N-(4-fluorophenyl)- (9CI) (CA INDEX NAME)





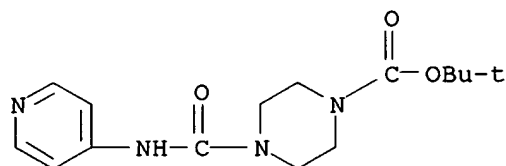
RN 283167-03-3 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-fluorophenyl)amino]carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



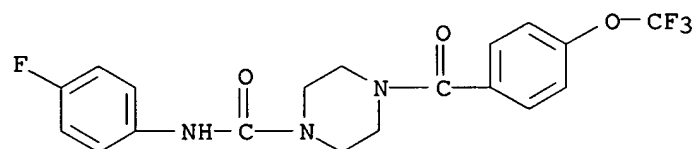
RN 283167-04-4 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(4-pyridinylamino)carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



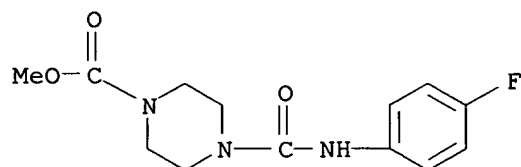
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CN 1-Piperazinecarboxamide, N-(4-fluorophenyl)-4-[4-(trifluoromethoxy)benzoyl]- (9CI) (CA INDEX NAME)



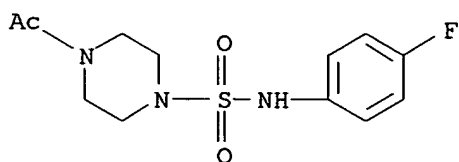
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CN 1-Piperazinecarboxylic acid, 4-[[4-(4-fluorophenyl)amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

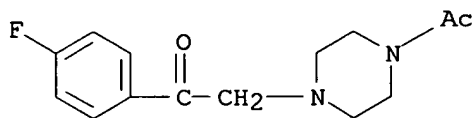


RN 283167-23-7 CAPLUS

CN 1-Piperazinesulfonamide, 4-acetyl-N-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



RN 283167-27-1 CAPLUS  
 CN Piperazine, 1-acetyl-4-[2-(4-fluorophenyl)-2-oxoethyl]-, monohydrochloride  
 (9CI) (CA INDEX NAME)



● HCl

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2000:493515 CAPLUS  
 DN 133:105053  
 TI Preparation of acylpiperazines, acylpiperidines, and related compounds as  
 cholinergic agonists.  
 IN Yamada, Akira; Aoki, Satoshi  
 PA Fujisawa Pharmaceutical Co., Ltd., Japan  
 SO PCT Int. Appl., 68 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000042011	A1	20000720	WO 2000-JP17	20000106
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2360360	AA	20000720	CA 2000-2360360	20000106
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AU 2000018904	A5	20000801		
RU 2208608	C2	20030720	RU 2001-122727	20000106
ZA 2001004713	A	20020909	ZA 2001-4713	20010608
US 6710043	B1	20040323	US 2001-869962	20010710

HK 1044337	A1	20041126	HK 2002-105923	20020813
JP 2004002414	A2	20040108	JP 2003-132491	20030512
US 2004014745	A1	20040122	US 2003-618743	20030715

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JP 2000-593579 A3 20000106  
WO 2000-JP17 W 20000106  
US 2001-869962 A3 20010710

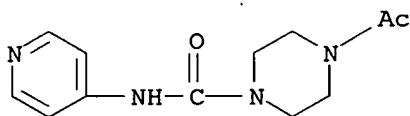
OS MARPAT 133:105053

AB R1ANR3EXR4YQR2 [R1 = acyl; R2 = (substituted) alkyl, alkoxy, alkylamino, alkenyl, alkenyloxy, alkenylamino, cycloalkyl, aryl, aryloxy, arylamino, heterocyclyl, acyl, etc.;, A = bond, CO, SO2; E = (substituted) alkylene; X = CH, N; Y = bond, alkylene, imino; Q =CH2, CO, SO2, N:CH; R3, R4 = H, alkyl; R3R4 = alkylene optionally condensed with cyclic hydrocarbyl or heterocyclyl], were prepared Thus, 1-acetylpiperazine in THF was treated with 4-fluorophenyl isocyanate followed by stirring for 1 h to give 1-acetyl-4-(4-fluorophenylcarbamoyl)piperazine. The latter at 1 mg/kg i.p. in rats gave 1.14 penile erections/h.

IT 283167-01-1P 283167-02-2P 283167-03-3P  
283167-04-4P 283167-20-4P 283167-21-5P  
283167-23-7P 283167-27-1P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of acylpiperazines, acylpiperidines, and related compds. as cholinergic agonists)

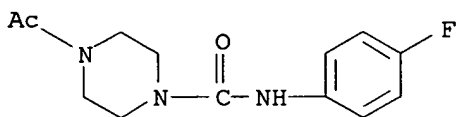
RN 283167-01-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-acetyl-N-4-pyridinyl- (9CI) (CA INDEX NAME)



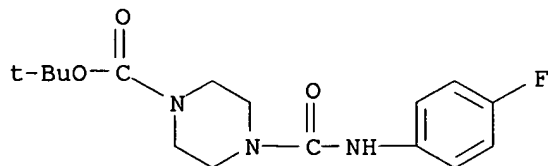
RN 283167-02-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-acetyl-N-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



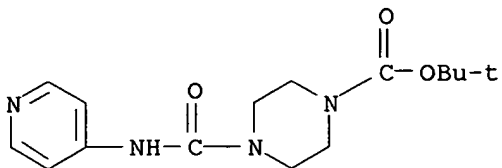
RN 283167-03-3 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-(4-fluorophenyl)amino]carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



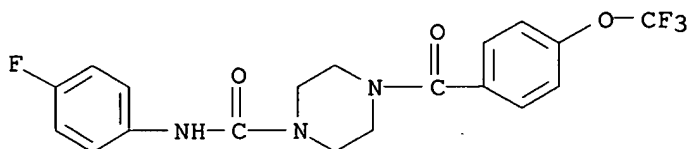
RN 283167-04-4 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[(4-pyridinylamino)carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



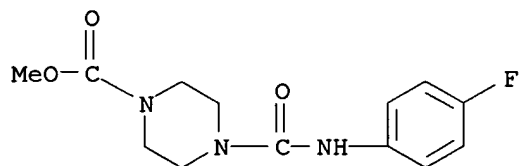
RN 283167-20-4 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-fluorophenyl)-4-[4-(trifluoromethoxy)benzoyl]- (9CI) (CA INDEX NAME)



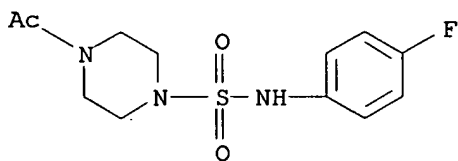
RN 283167-21-5 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[4-(4-fluorophenyl)amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



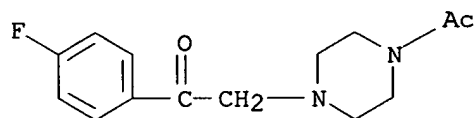
RN 283167-23-7 CAPLUS

CN 1-Piperazinesulfonamide, 4-acetyl-N-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



RN 283167-27-1 CAPLUS

CN Piperazine, 1-acetyl-4-[2-(4-fluorophenyl)-2-oxoethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

7

RE.CNT 25

THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT